

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 03/28/2006

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/789,083	02/27/2004	Bang-Chein Ho	252016-1710	7532		
47390 75	7590 03/28/2006		EXAM	EXAMINER		
THOMAS, K.	AYDEN, HOSTEME	LE, DUN	LE, DUNG ANH			
100 GALLERL	A PARKWAY					
SUITE 1750			ART UNIT	PAPER NUMBER		
ATLANTA, G	A 30339	2818				

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
Office Action Summary		10/789,0		HO ET AL.	(M)			
		Examine		Art Unit				
	•	DUNG A.	·	2818				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status		•						
Responsive to communication(s) filed on This action is FINAL .								
Disposition of Claims								
4a 5)□ Cl 6)□ Cl 7)□ Cl 8)⊠ C	aim(s) 1-23 is/are pending in the solution of the above claim(s) is/a aim(s) is/are allowed. aim(s) is/are rejected. aim(s) is/are objected to. laim(s) 1-23 are subject to restrict	are withdrawn from co						
Application								
10)□ Th Al	e specification is objected to by the drawing(s) filed on is/are oplicant may not request that any objected the drawing sheet(s) including the oath or declaration is objected.	e: a) accepted or bection to the drawing(s) g the correction is requ	be held in abeyance. So ired if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 (CFR 1.121(d). TO-152.			
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review ation Disclosure Statement(s) (PTO-1449 No(s)/Mail Date	(PTO-948) or PTO/SB/08)	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date	Dle TO-152)			

Application/Control Number: 10/789,083

Art Unit: 2818

DETAILED ACTION

Election/Restrictions

Claims 1-23 are pending in this application.

- 1. This application contains claims directed to the following patentably distinct species of the claimed invention:
- a) Species I, e.g. claims 1-15: Method of forming a dual damascene interconnect in an integrated circuit using a photo resist layer and a protective layer (figs. 2A-2G).
- b) Species II, e.g. claims 16-23: Method of forming a dual damascene interconnect in an integrated circuit using two photo resist layers and two protective layers (figs. 3A-2I).
- 2. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claims is finally held to be allowable. Currently, no claim is generic. Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is all claims are generic is considered non-responsive unless accompanied by an election.
- 3. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. 1.141. If claims are added after the selection, applicant must indicate which are readable upon the elected species.

 M.P.E.P. 809.02(a). Should applicant traverse on the ground that the species are not

Application/Control Number: 10/789,083

Art Unit: 2818

patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103 of the other invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filled petition under 37 C.F.R. 1.48(b) and by the fee required under 37 C.F.R. 1.17(h).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung A. Le whose telephone number is (571) 272-1784. The examiner can normally be reached on Monday-Friday 8:00am- 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The central fax phone numbers for the organization where this application or proceeding is assigned are (571)272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUNG LE PREMARY EXAMNER

De